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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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EXAMINER

RAO, SHRINIVAS H

ART UNIT PAPER NUMBER

2814

DATE MAILED: 04/15/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/932,644

Applicant(s)

JACOBSEN, JEFFREY JAY

Examiner

Steven H. Rao

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 04 March 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-28 is/are pending in the application.
- 4a) Of the above claim(s) 1-14, 24-26 and 28 is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☐ Claim(s) 15-23 and 27 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892) 4) ☐ Interview Summary (PTO-413) Paper No(s). _____
- 2) ☒ Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) ☐ Notice of Informal Patent Application (PTO-152)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____ 6) ☐ Other: _____

DETAILED ACTION

Priority

The application as currently filed does not claim priority from any prior application. Therefore the earliest filing date currently available is the U.S. filing date, namely August 17, 2001.

Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- I. Claims 1-14, 24-26 and 28 are drawn to a display device, classified in class 345 subclass 1.
- II. Claims 15-23, and 27 are drawn to a method of manufacturing a flexible display panel, classified in class 428, and subclass 209.

The inventions are distinct, each from the other because of the following reasons:

Inventions Group I (claims 1-14, 24-26 and 28) and Group II (claims 15 to 23 and 27) are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case the product as claimed can be made by another and materially different process namely by using blocks that need not include a circuit element for driving a circuit element

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process namely by using blocks that need not include a circuit element for driving a circuit element

Because these inventions are distinct for the reasons given above and the search required for Group I is not required for Group II, restriction for examination purposes as indicated is proper.

During a telephone conversation with James C. Scheller, Jr. on 03/04/03 a provisional election was made without traverse to prosecute the invention of Group II, claim 14-23 and 27.

Affirmation of this election must be made by applicant in replying to this Office action.

Claims 1-14, 24-26 and 28 are withdrawn from further consideration by the examiner, 37 CFR 1.142(b), as being drawn to a non-elected invention.

Specification

Drawings

The drawings filed on August 17, 2001 have been objected to by the drafts person for the reasons stated in the enclosed PTO-948.

Appropriate correction is required.

New corrected drawings are required in this application because to correct the drafts person's objections. Applicant is advised to employ the services of a competent patent drafts person outside the Office, as the U.S. Patent and Trademark Office no longer prepares new drawings. The corrected drawings are required in reply to the

Office action to avoid abandonment of the application. The requirement for corrected drawings will not be held in abeyance.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 15 to 21, 23 and 27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Duthaler et al. (U.S. Patent No. 6,312, 304, herein after Duthaler) in view of Falls S et al. (WO. Patent No. 97/05556, herein after Falls).

With respect to claim 15 Duthaler describes a method of manufacturing a flexible display panel (Duthaler col. 2 lines 26-27) comprising:

depositing a plurality of blocks onto a flexible layer (Duthaler figure 1 # 18),
each of said blocks comprising a circuit element for driving a picture element (fig. 2 # 24, col. 4 line 2) ;

Duthaler does not specifically describe the coupling of a receiver to the plurality of blocks on the flexible layer.

However Falls in figure figures 1,6,7 and pages 27 lines 7 to 12 describes the coupling of a receiver to the plurality of blocks on the flexible layer to automate real-time information display, dynamic printed information display an shelf-space management .

Therefore it would have been obvious to one of ordinary skill in the art at the time of the invention to include Fall's receiver coupled to the plurality of blocks on the flexible layer to automate real-time information display, dynamic printed information display and shelf-space management. (Falls page 9 lines 18-27).

With respect to claim 16 Duthaler describes the method of claim 15, wherein said flexible display panel conforms to a desired shape of an object when said flexible display panel is attached to said object.(Falls page 11 lines 3 to 34).

With respect to claim 17 Duthaler describes the method of claim 15, wherein each of said shaped blocks comprises an active circuit element, which drives a picture element. (Falls figs. 1,6 and 7 , page 10 lines 15-20).

With respect to claim 18 Duthaler describes the method of claim 15, further comprising: coupling a display generation substrate to said flexible layer.(Falls fig. 13 , page 58 lines 6 to 29).

With respect to claim 19 Duthaler describes the method of claim 15, wherein said flexible display panel comprises an active matrix display back plane which comprises at least one electrode for each picture element. (Duthaler figure 8a , col. 7 lines 8 to 53).

With respect to claim 20 , Duthaler describes The method of claim 15, wherein said flexible display panel is conformal. (i.e. as defined in the specification page 5 section [0017] they may receive information in order to alter or configure display- Falls page 27, lines 17 to 20)

With respect to claim 21, Duthaler describes the method of claim 15, wherein the flexible display panel has an organic light emitting diode.(Duthaler col.8 lines 44).

With respect to claim 23, Duthaler describes the method of claim 15, wherein the receiver is a RF wireless transponder receiver (Falls page 3 lines 17 to19).

With respect to claim 27 Duthaler describes a method of manufacturing a flexible display panel depositing a plurality of blocks onto a web material defined by a length 50 times greater than its width, each of said blocks comprises an electronic device for driving a picture element; and coupling a receiver to the plurality of blocks on the web material. (Duthaler col. 2 lines 27-45, Falls figs. 1,6 and 7,etc.).

B. Claim 22 is rejected under 35 U.S.C. 103(a) as being unpatentable over Duthaler et al. (U.S. Patent No. 6,312, 304, herein after Duthaler) and Falls S et al. (WO. Patent No. 97/05556, herein after Falls) as applied to claims 15-21 , etc. and further in view of Bischel et al. (U.S. Patent No. 5,664,032 herein after Bischel).

With respect to claim 22, Duthaler describes The method of claim 15.
Duthaler and Falls do not specifically mention the flexible display panel as comprising up converting phosphor.

However Bischel in col. 94 lines 5-10 describes up converting phosphor to radiate desired display color by channeling light through particular wavelength by wave guides and thus eliminate the need for a separate diffusing screen.

Therefore it would have been obvious to one of ordinary skill in the art at the time of the invention to include Bischel's up converting phosphor in Duthaler and Falls S's

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method to radiate desired display color by channeling light through particular wavelength by wave guides and thus eliminate the need for a separate diffusing screen. (Bischel col. 94 lines 8-10).

Any inquiry concerning this communication or earlier communication from the examiner should be directed to Steven H. Rao whose telephone number is (703) 306-5945. The examiner can normally be reached on Monday- Friday from approximately 7:00 a.m. to 5:30 p.m.


Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 308-0956. The Group facsimile number is (703) 308-7724.



Steven H. Rao

Patent Examiner

April 04, 2003.



LONG PHAM
PRIMARY EXAMINER